REV.	BRIEF DESCRIPTION OF CHANGE	ECO	DATE	BY	APPR.

SEE SHEET 1

SH.4/B8 500KHZ

+5V

U20 74LS293 — VCC 14, A 10, B 11, QA 9, QB 5, QC 4, QD 8, RO(1) 12, RO(2) 13, GND 7

SH.1/B4 2MHZ
SH.3/D8 RESET OUT
SH.4/D8 RESET OUT
SH.3/A8 CS-8251A
SH.3/D8 CS-8291A
SH.4/B8 CS-ADC
SH.4/D8 CS-8255
SH.3/A8 BAUD CLK
SH.3/A8 INT4
SH.3/A8 INT3
SH.3/C8 INT2
SH.3/D8 INT1

U22 8035 — VCC 40, XTAL1 2, XTAL2 3, Y1 6.144MHZ, C26 20PF, E4, E3, C27 1, EA 7, SS 5 (NC), RESET 4, T0 1, T1 39, PROG 25, P27 38, P26 37, P25 36, P24 35, P23 24, P22 23, P21 22, P20 21, P17 34, P16 33 (IO/M), P15 32 (CS-8155), P14 31, P13 30, P12 29, P11 28 (STROBEN), P10 27 (INT), VDD 26, WR 10, RD 8, ALE 11, PSEN 9, GND 20, DB7–DB0

U24 8155 H — VCC 40, RESET 4, IO/M 7, CE 8, TIMERIN 3, TIMEROUT 6, WR 10, RD 9, ALE 11, AD7–AD0, PC5 5 (NC), PC4 2 (NC), PC3 1, PC2 39, PC1 38, PC0 37, PA7 28 (NC), PA6 27 (NC), PA5 26 (NC), PA4 25, PA3 24, PA2 23, PA1 22, PA0 21, PB7–PB0, GND 20

RN3 2.7K — 16, 14, NC, NC

U21 74LS05 ×4

RN3 2.7K — 16, 6, 10, 7, 9, 8

SW2 — IEEE DEVICE ADDRESS SELECTION

RN3 2.7K — 16, 11, 5, 12, 4, 13, 3, 2, 1

SW1

U23 74LS373 — VCC 20, 8D–1D, 8Q–1Q, G 11, GND 10, OC 1

U25 2716 2732 A — VPP/A11 21, E6 2732A, E5 2716, +5V, A10 19, A9 22, A8 23, A7–A0, O7–O0, OE 20, GND 12, CE 18

U18 74154 — VCC 24, D 20, C 21, B 22, A 23, G2 19, G1 18, GND 12, O15–O0, NC 1

U13 74LS02 ×2

2MHZ SH.3/D8
T1 SH.1/B4
PROG SH.1/C4
PROG SH.5/C8
CS15 SH.1/C4
CS14 SH.1/C4
CS13 SH.1/C4
CS12 SH.1/C4
CS11 SH.1/D4
CS10 SH.1/D4
CS9 SH.1/D4
CS8 SH.1/D4
CS7 SH.1/D4
CS6 SH.1/D4
CS5 SH.1/D4
CS4 SH.1/D4
CS3 SH.1/D4
CS2 SH.1/D4
CS1 SH.5/C8
P23 SH.1/C4
P23 SH.5/C8
P22 SH.1/C4
P22 SH.5/C8
P21 SH.1/C4
P21 SH.5/C8
P20 SH.1/C4
P20 SH.5/C8
DB0–DB7 SH.1/B4
DB0–DB7 SH.3/C8
DB0–DB7 SH.4/B8
PSEN SH.1/B4
A2 SH.3/D8
A2 SH.4/B8
A1 SH.3/D8
A1 SH.4/B8
A0 SH.3/D8
A0 SH.4/B8
ALE SH.1/B4
RD SH.1/B4
RD SH.3/D8
RD SH.4/B8
WR SH.1/B4
WR SH.3/D8
WR SH.4/B8
STROBE SH.1/C4
STROBE SH.5/D8

SW1

RS232 MODE SELECTION

SWITCH NUMBER	OFF	ON
1	PARITY OFF	PARITY ON
2	ODD PARITY	EVEN PARITY
3	1 STOP BIT	2 STOP BITS
4	7 DATA BITS	8 DATA BITS

SW1

RS232 BAUD RATE SELECTION

SWITCH NUMBER	SWITCH SETTING								
5	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
6	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF
7	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF
8	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
BAUD RATE	75	110	150	300	600	1200	2400	4800	9600

QTY	ITEM	PART NUMBER	DESCRIPTION

	NAME	DATE
DFTS.	B.PATRICK	5/90
CHK.		
ENG.	T.BERTKA	5/90
MFG.		

MODEL	NEXT ASSY.
	0442-5040

FINISH:

Spectra-Physics — MOUNTAIN VIEW CA 94042

TOLERANCES, UNLESS OTHERWISE SPECIFIED: .X ± .XX ± .XXX ± ANGLES: ± SURF.FIN: ± — CONFIDENTIAL: SPECTRA-PHYSICS PROPRIETARY — GENERAL TOLERANCES PER S-P DOCUMENT NO. C-5124

SCHEMATIC
UNIVERSAL INTERFACE
P.C.B.

SCALE	SIZE	DRAWING NUMBER	SHEET	REV.
NONE	D	0442-5020	2 OF 5	A

PCAD
FILE:UIB2.SCH